

IN THE CLAIMS:

1.(Currently Amended) A combustor for a gas turbine, comprising:

~~a first burner injecting a fuel and an air into a combustion chamber; and~~

~~_____ a second burner generating a circulation jet flow of the fuel and the air at a position corresponding to a leading end portion of a frame generated by the first burner; a tubular combustor liner forming a combustion chamber;~~

~~_____ an outer tube provided in an outer peripheral portion side of the combustor liner via a gap;~~

~~_____ a first burner provided in one end of the combustor liner and injecting a fuel and an air into the combustion chamber;~~

~~_____ an air introduction hole introducing a combustion air guided from the gap with respect to the outer tube into the combustion chamber; and~~

~~_____ a second burner provided in the outer tube at a position facing to the air introduction hole and directly injecting the fuel into the combustion chamber from the air introduction hole.~~

~~_____ wherein the air introduction hole and the second burner are installed at a position corresponding to a leading end portion of a flame generated by the first burner, a flow speed of the air injected into the combustion chamber from the air introduction hole is made higher than a flow speed of a combustion gas around the air introduction hole, the air injected from the air introduction hole is brought into contact with each other within the combustion chamber so as to form a circulation jet flow, the air introduced into the combustion chamber from the air introduction hole is mixed with the combustion gas, and the fuel is slowly oxidized.~~

2.(Currently Amended) A combustor for a gas turbine, comprising:

~~a first burner injecting a fuel and an air into a combustion chamber; and~~

~~_____ a second burner spraying the fuel and the air so as to intersect a downstream side of a flame generated by the first burner, a tubular combustor liner forming a combustion chamber;~~

~~_____ an outer tube provided in an outer peripheral portion side of the combustor liner via a gap;~~

~~_____ a first burner provided in one end of the combustor liner and injecting a fuel and an air into the combustion chamber;~~

~~_____ an air introduction hole introducing a combustion air guided from the gap with respect to the outer tube into the combustion chamber; and~~

~~_____ a second burner provided in the outer tube at a position facing to the air introduction hole and directly injecting the fuel into the combustion chamber from the air introduction hole.~~

~~_____ wherein the air from the air introduction hole and the fuel from the second burner are injected so as to intersect a downstream side of a flame generated by the first burner, a flow speed of the air injected into the combustion chamber from the air introduction hole is made higher than a flow speed of a combustion gas around the air introduction hole, the air injected from the air introduction hole is brought into contact with each other within the combustion chamber so as to form a circulation jet flow, the air introduced into the combustion chamber from the air introduction hole is mixed with the combustion gas, and the fuel is slowly oxidized.~~

3.(Original) A combustor for a gas turbine, comprising:

~~a first burner injecting a fuel and an air into a combustion chamber; and~~
~~_____ a second burner guiding the fuel and the air so as to intersect a distributing direction of a flame generated by the first burner, a tubular combustor liner forming a combustion chamber;~~
~~_____ an outer tube provided in an outer peripheral portion side of the combustor liner via a gap;~~
~~_____ a first burner provided in one end of the combustor liner and injecting a fuel and an air into the combustion chamber;~~
~~_____ an air introduction hole introducing a combustion air guided from the gap with respect to the outer tube into the combustion chamber;~~
~~and~~
~~_____ a second burner provided in the outer tube at a position facing to the air introduction hole and directly injecting the fuel into the combustion chamber from the air introduction hole,~~
~~_____ wherein the air from the air introduction hole and the fuel from the second burner are guided so as to intersect a distributing direction of a flame generated by the first burner, a flow speed of the air injected into the combustion chamber from the air introduction hole is made higher than a flow speed of a combustion gas around the air introduction hole, the air injected from the air introduction hole is brought into contact with each other within the combustion chamber so as to form a circulation jet flow, the air introduced into the combustion chamber from the air introduction hole is mixed with the combustion gas, and the fuel is slowly oxidized.~~

4. (Currently Amended) A combustor for a gas turbine as claimed in claim 1, ~~2 or 3~~, wherein the second burner is provided so as to pass through a peripheral wall forming the combustion chamber.

5.(Currently Amended) A combustor for a gas turbine as claimed in claim 1,~~2 or~~ 3, wherein the second burner is constituted by a plurality of burners, and these plurality of burners are arranged in such a manner that the fuel and the air come into collision with each other near a center portion of the combustion chamber.

6.(Currently Amended) A combustor for a gas turbine as claimed in claim 1,~~2 or~~ 3, wherein the second burner is provided with a fuel injection nozzle near a center portion of the combustion chamber, such that the fuel is positioned in an outer side of a spray flow of the air.

7.(Currently Amended) A combustor for a gas turbine as claimed in claim 1,~~2 or~~ 3, wherein the second burner is provided with a guide tube guiding the fuel and the air to a center portion of the combustion chamber, in a peripheral wall forming the combustion chamber, and the guide tube protrudes into the combustion chamber.

8.(Currently Amended) A combustor for a gas turbine, comprising:
~~a first burner injecting a fuel and an air into a combustion chamber;~~
~~a second burner generating a circulation jet flow of the fuel and the air at a position corresponding to a leading end portion of a frame generated by the first burner; and~~
~~a third burner generating a circulation jet flow of an air-fuel mixture near a terminal end portion of a reaction region within the combustion chamber; a tubular combustor liner forming a combustion chamber;~~

an outer tube provided in an outer peripheral portion side of the combustor liner via a gap;

a first burner provided in one end of the combustor liner and injecting a fuel and an air into the combustion chamber;

an air introduction hole introducing a combustion air guided from the gap with respect to the outer tube into the combustion chamber;
and

a second burner provided in the outer tube at a position facing to the air introduction hole and directly injecting the fuel into the combustion chamber
from the air introduction hole.

wherein the air introduction hole and the second burner are installed at a position corresponding to a leading end portion of a flame generated by the first burner, a flow speed of the air injected into the combustion chamber from the air introduction hole is made higher than a flow speed of a combustion gas around the air introduction hole, the air injected from the air introduction hole is brought into contact with each other within the combustion chamber so as to form a circulation jet flow, the air introduced into the combustion chamber from the air introduction hole is mixed with the combustion gas, the fuel is slowly oxidized, and a third burner generating a circulation jet flow of an air-fuel mixture is provided near a terminal end portion of a reaction region within the combustion chamber.

9.(Currently Amended) A combustor for a gas turbine comprising:

~~a pilot burner securing a combustion stability in an upstream side of a combustion chamber; and~~

_____ a lean air-fuel mixture guiding means generating a circulation jet flow of a lean air-fuel mixture at a leading end portion of a flame generated by the pilot burner, a tubular combustor liner forming a combustion chamber;

_____ an outer tube provided in an outer peripheral portion side of the combustor liner via a gap;

_____ a pilot burner provided in an upstream side of the combustor liner and injecting a fuel and an air into the combustion chamber so as to secure a combustion stability; and

_____ a lean air-fuel mixture guiding means provided in a peripheral wall of the combustor liner and directly injecting the fuel and the air into the combustion chamber.

_____ wherein a flow speed of the air injected into the combustion chamber from the lean air-fuel mixture guiding means is made higher than a flow speed of a combustion gas around the lean air-fuel mixture guiding means, and the fuel and the air from the lean air-fuel mixture guiding means are injected to a leading end portion of a flame generated by the pilot burner so as to form a circulation jet flow of the lean air-fuel mixture.